ETSITS 129 230 V6.10.0 (2007-06)

Technical Specification

Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
Diameter applications;
3GPP specific codes and identifiers
(3GPP TS 29.230 version 6.10.0 Release 6)



Reference
RTS/TSGC-0429230v6a0

Keywords
GSM, UMTS

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from: <u>http://www.etsi.org</u>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

http://portal.etsi.org/tb/status/status.asp

If you find errors in the present document, please send your comment to one of the following services: http://portal.etsi.org/chaircor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2007.
All rights reserved.

DECTTM, **PLUGTESTS**TM and **UMTS**TM are Trade Marks of ETSI registered for the benefit of its Members. **TIPHON**TM and the **TIPHON logo** are Trade Marks currently being registered by ETSI for the benefit of its Members. **3GPP**TM is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://webapp.etsi.org/IPR/home.asp).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

Contents

Intell	ectual Property Rights	2
Forev	vord	2
Forev	word	4
1	Scope	
2	References	
3 3.1	Definitions and abbreviations	
3.2	Abbreviations	
4	Application identifiers	f
4 .1	3GPP specific application identifiers	
5	Command codes	6
5.1	Command codes allocated for 3GPP	
6	Vendor identifier	7
6.1	3GPP's vendor identifier	
7	Attribute-Value-Pair codes	7
7.1	3GPP specific AVP codes	
8	Experimental result codes	12
8.1	3GPP specific result codes	
8.1.1 8.1.2	Informational	
8.1.3	Transient Failures	
8.1.4	Permanent Failures	
Anne	ex A (informative): Assignment of the Diameter codes and identifiers in 3GPP	15
A.1	Application identifiers	
	••	
A.2	Command codes	
A.3	AVP codes	15
A.4	Result codes.	15
Anne	ex B (informative): Change history	17
Histo		18

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document lists the 3GPP specific Diameter protocol codes, including the AVP codes and Experimental result codes.

This document lists also the application identifiers assigned to 3GPP specific Diameter applications by IANA and the Diameter command code range which is assigned to 3GPP by IANA.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.

protocol".

• For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1]	3GPP TS 29.228: " IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents".
[2]	3GPP TS 29.229: " Cx and Dx interfaces based on the Diameter protocol; Protocol details".
[3]	3GPP TS 29.328: " IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".
[4]	3GPP TS 29.329: " Sh Interface based on the Diameter protocol; Protocol details".
[5]	3GPP TS 32.299 "3GPP Diameter charging application".
[6]	3GPP TS 29.234: "3GPP System to WLAN Interworking; Stage 3 Description".
[7]	3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Protocol details".
[8]	3GPP TS 29.209: "Technical Specification Group Core Network; Policy control over Gq interface".
[9]	IETF RFC 3588: "Diameter Base Protocol".
[10]	IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5".
[11]	IANA's Enterprise-Numbers: http://www.iana.org/assignments/enterprise-numbers
[12]	IANA's AAA parameters register: http://ftp.iana.org/assignments/aaa-parameters/
[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[14]	3GPP TS 32.296: "Telecommunication management; Online Charging System (OCS): Applications and interfaces;".
[15]	3GPP TS 29.210: " Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140: "Multimedia Messaging Service (MMS); MM10 interface based on Diameter

[17] 3GPP TS 29.211: "Rx Interface and Rx/Gx signalling flows".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply.

3GPP specific: A definition which is used in conjunction with the 3GPP's vendor identifier.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

The Diameter applications are identified with the application identifiers as specified in the RFC 3588 [9]. There are two kind of applications: IETF standards track applications and vendor specific applications. All application identifiers are assigned by IANA [12]. This chapter lists the application identifiers asigned by IANA to all 3GPP Diameter applications.

The application identifiers are transferred in Diameter command's header in the Application-ID field.

4.1 3GPP specific application identifiers

The 3GPP specific application identifiers allocated by IANA are listed in the following table.

Table 4.1: 3GPP specific application identifiers

Application identifier	Application	3GPP TS
16777216	3GPP Cx/Px	29.228 [1] and 29.229 [2]
16777217	3GPP Sh/Ph	29.328 [3] and 29.329 [4]
16777218	3GPP Re	32.296 [14]
16777219	3GPP Wx	29.234 [6]
16777220	3GPP Zn	29.109 [7]
16777221	3GPP Zh	29.109 [7]
16777222	3GPP Gq	29.209 [8]
16777223	3GPP Gmb	29.061 [13]
16777224	3GPP Gx	29.210 [15]
16777225	3GPP Gx over Gy	29.210 [15]
16777226	3GPP MM10	29.140 [16]
16777229	3GPP Rx	29.211 [17]
16777230	3GPP Pr	29.234 [6]

5 Command codes

The command codes are used for communicating the command associated with the Diameter message. The command code is carried in the Diameter header's Command-Code field. The command codes can be divided into standard command codes allocated by IANA and experimental command codes for testing purposes only.

5.1 Command codes allocated for 3GPP

Based on the IETF RFC 3589 [10] the IANA has allocated a standard command code range 300 - 313 for 3GPP. The command codes are presented in the following table.

Table 5.1/1: Command codes allocated for 3GPP

Command code	Command name	Abbreviation	Specified in 3GPP TS	
300	User-Authorization-Request/-Answer	UAR/UAA		
301	Server-Assignment-Request/-Answer	SAR/SAA		
302	Location-Info-Request/-Answer	LIR/LIA		
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29.229 [2]	
304	Registration-Termination-Request/-	RTR/RTA		
	Answer			
305	Push-Profile-Request/-Answer	PPR/PPA		
306	User-Data-Request/-Answer	UDR/UDA		
307	Profile-Update-Request/-Answer	PUR/PUA	29.329 [4]	
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	29.329 [4]	
309	Push-Notification-Request/-Answer	PNR/PNA		
310	Boostrapping-Info-Request/Answer	BIR/BIA	29.109 [7]	
311	Message-Process-Request/Answer	MPR/MPA	29.140 [16]	

Editors note: The following command codes have been allocated to 3GPP, but they have not been used yet.

Table 5.1/2: Command codes allocated for 3GPP.

312		
313		

6 Vendor identifier

The vendor identifier (also known as Enterprise number) indicates the vendor specific attributes, result codes and application identifiers in Diameter commands. The vendor identifier is used in the Vendor-ID field of the AVP header and in the Vendor-Id AVP. The Vendor-Id AVP is used to identify the vendor in the Vendor-Specific-Application-Id and Experimental-Result-Code grouped AVPs.

6.1 3GPP's vendor identifier

The IANA has allocated a vendor identifier value 10415 for 3GPP [11].

7 Attribute-Value-Pair codes

The AVP codes are used together with the vendor identifier to identify each attribute uniquely. There are multiple AVP namespaces. The IETF IANA namespace, that is, the AVPs with vendor identifier zero or without vendor identifier, is controlled by IANA. Each vendor controls the AVP codes within their AVP namespaces.

7.1 3GPP specific AVP codes

The 3GPP specific AVPs have the Vendor-Specific bit ('V' bit) set in the AVP header and they carry the 3GPP's vendor identifier in the Vendor-ID field of the AVP header. The 3GPP specific AVP codes are presented in the following table.

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id		
Note: The res	t of the AVP codes from 1 to 255 are reserved for backw	ards compatibility	with 3GPP RADIUS Vendor
	outes (See also TS 29.061 [13])	, ,	
	P codes from 256 to 299 are reserved for future use.		
300	Authentication-Method		
301	Authentication-Information-SIM		
302	Authorization -Information-SIM		
303	WLAN-User-Data		
304	Charging-Data		
305	WLAN-Access		
306	WLAN- 3GPP-IP-Access		
307	APN-Authorized		
308	unassigned		
309	APN-Barring-Type		29.234 [6]
310	WLAN-Direct-IP-Access		1
311	Session-Request-Type		
312	Routing-Policy		1
313	Max-Requested-Bandwidth		1
314	Charging-Characteristics		
315	Charging-Nodes		1
316	Primary-OCS-Charging-Function-Name		
317	Secondary-OCS-Charging-Function-Name		1
318	3GPP-AAA-Server-Name		1
319	Maximum-Number-Accesses	Unsigned32	
	P codes from 320 to 399 are reserved for TS 29.234	Onorgino do 2	
110101 1110 711			29.109 [7]
Note: The AV	P codes from 400 to 499 are reserved for TS 29.109		20.100 [1]
500	Abort-Cause	Enumerated	
501	Access-Network-Charging-Address	Address	1
502	Access-Network-Charging-Identifier	Grouped	1
503	Access-Network-Charging-Identifier-Value	OctetString	1
504	AF-Application-Identifier	OctetString	1
505	AF-Charging-Identifier	OctetString	1
506	Authorization-Token	OctetString	1
507	Flow-Description	IPFilterRule	1
508	Flow-Grouping	Grouped	1
509	Flow-Number	Unsigned32	1
510	Flows	Grouped	
511	Flow-Status	Enumerated	29.209 [8],
512	Flow-Usage		29.211 [17]
512	Specific-Action	Enumerated	29.211[17]
513	Max-Requested-Bandwidth	Enumerated Unsigned32	1
515	Max-Requested-Bandwidth-DL	Unsigned32	-
	Max-Requested-Bandwidth-UL	Unsigned32 Unsigned32	1
516 517	Media-Component-Description	Grouped	1
517	Media-Component-Description Media-Component-Number		-
		Unsigned32	-
519	Media-Sub-Component AVP	Grouped	-
520	Media-Type	Enumerated	-
521	RR-Bandwidth	Unsigned32	-
522	RS-Bandwidth	Unsigned32	4
523	SIP-Forking-Indication	Enumerated	
	AVP codes from 524 to 599 are reserved for TS 29.209		00.555.55
600	Visited-Network-Identifier	OctetString	29.229 [2]
601	Public-Identity	UTF8String	
602	Server-Name	UTF8String	
603	Server-Capabilities	Grouped	

	T		
604	Mandatory-Capability	Unsigned32	
605	Optional-Capability	Unsigned32	
606	User-Data	OctetString	
607	SIP-Number-Auth-Items	Unsigned32	
608	SIP-Authentication-Scheme	UTF8String	
609	SIP-Authenticate	OctetString	
610	SIP-Authorization	OctetString	
611	SIP-Authentication-Context	OctetString	
612	SIP-Auth-Data-Item	Grouped	29.229 [2], 29.234 [6]
613	SIP-Item-Number	Unsigned32	
614	Server-Assignment-Type	Enumerated	
615	Deregistration-Reason	Grouped	
616	Reason-Code	Enumerated	
617	Reason-Info	UTF8String	
618	Charging-Information	Grouped	
619	Primary-Event-Charging-Function-Name	DiameterURI	
620	Secondary-Event-Charging-Function-Name	DiameterURI	
621	Primary-Charging-Collection-Function-Name	DiameterURI	
622	Secondary-Charging-Collection-Function-Name	DiameterURI	29.229 [2]
623	User-Authorization-Type	Enumerated	25.225 [2]
624	User-Data-Already-Available	Enumerated	
625	Confidentiality-Key	OctetString	
626	Integrity-Key	OctetString	
627	User-Data-Request-Type	Enumerated	
628	Supported-Features	Grouped	
629	Feature-List-ID	Unsigned32	
630	Feature-List	Unsigned32	
631	Supported-Applications	Grouped	
632	Associated-Identities	Grouped	
Note: The	e AVP codes from 633 to 699 are reserved for TS 29.229.		
700	User-Identity	Grouped	
701	MSISDN	OctetString	
702	User-Data	OctetString	
703	Data-Reference	Enumerated	
704	Service-Indication	OctetString	29.329 [4]
705	Subs-Req-Type	Enumerated	
706	Requested-Domain	Enumerated	
707	Current-Location	Enumerated	
708	Identity-Set	Enumerated	
Note: The	e AVP codes from 709 to 799 are reserved for TS 29.329.		
Note: The	e AVP codes from 800 to 822 are reserved for TS 32.299.		
823	Event-Type	Grouped	
824	SIP-Method	UTF8String	
825	Event	UTF8String	
826	Content-Type	UTF8String	
827	Content-Length	Unsigned32	
828	Content-Disposition	UTF8String	
829	Role-of-Node	Enumerated	
830	User-Session-Id	UTF8String	
831	Calling-Party-Address	UTF8String	
832	Called-Party-Address	UTF8String	
833	Time-Stamps	Grouped	
834	SIP-Request-Timestamp	Time	
835	SIP-Response-Timestamp	Time	
836	Application-Server	UTF8String	
837	Application-provided-called-party-address	UTF8String	
838	Inter-Operator-Identifier	Grouped	
839	Originating-IOI	UTF8String	
840	Terminating-IOI	UTF8String	
841	IMS-Charging-Identifier	UTF8String	
842	SDP-Session-Description	UTF8String	
843	SDP-Media-Component	Grouped	
844	SDP-Media-Name	UTF8String	
845	SDP-Media-Description	UTF8String	
846	CG-Address	Address	

0.47	CCCN Address	A ddr	
847	GGSN-Address	Address	
848	Served-Party-IP-Address	Address	
849	Authorized-QoS	UTF8String	
850	Application-Server-Information	Grouped	
851	Trunk-Group-Id	Grouped	
852	Incoming-Trunk-Group-Id	UTF8String	
853	Outgoing-Trunk-Group-Id	UTF8String	
854	Bearer-Service	OctetString	
855	Service-Id	UTF8String	
856	Associated-URI	UTF8String	
857	Charged-Party	UTF8String	
858	PoC-Controlling-Address	UTF8String	
859	PoC-Group-Name	UTF8String	
860	Cause	Grouped	32.299 [5]
861	Cause-Code	Integer32	02.200 [0]
862	Node-Functionality	Enumerated	
863	Service-Specific-Data	UTF8String	
864	Originator	Enumerated	
865	PS-Furnish-Charging-Information	Grouped	
866	PS-Free-Format-Data	OctetString	
867	PS-Append-Free-Format-Data	Enumerated	
868	Time-Quota-Threshold	Unsigned32	
869	Volume-Quota-Threshold	Unsigned32	
870	Trigger-Type	Enumerated	
871	Quota-Holding-Time	Unsigned32	
872	Reporting-Reason	Enumerated	
873	Service-Information	Grouped	
874	PS-Information PS-Information	Grouped	
875	WLAN-Information	Grouped	
876	IMS-Information	Grouped	
877	MMS-Information	Grouped	
878	LCS-Information	Grouped	
879	PoC-Information	Grouped	
880	MBMS-Information	Grouped	
881	Quota-Consumption-Time	Unsigned32	
882	Media-Initiator-Flag	Enumerated	
883	PoC-Server-Role	Enumerated	
884	PoC-Session-Type	Enumerated	
885	Number-Of-Participants	Unsigned32	
886	Originator-Address	Grouped	
887	Participants-Involved	UTF8String	
888	Expires	Unsigned32	
889	Message-Body	Grouped	
890	WAG-Address	Address	
891	WAG-PLMN-Id	OctetString	
892	WLAN-Radio-Container	Grouped	
893	WLAN-Radio-Container WLAN-Technology	Unsigned32	
	0,		
894	WLAN-UE-Local-IPAddress	Address	
895	PDG-Address	Address	
896	PDG-Charging-Id	Unsigned32	
897	Address-Data	UTF8String	
898	Address-Domain	Grouped	
899	Address-Type	Enumerated	00.004.1467
900	TMGI	OctectString	29.061 [13]
901	Required-MBMS-Bearer-Capabilities	UTF8String	
902	MBMS-StartStop-Indication	Enumerated	
903	MBMS-Service-Area	OctectString	
904	MBMS-Session-Duration	Unsigned32	
905	Alternative-APN	UTF8String	
906	MBMS-Service-Type	Enumerated	
907	MBMS-2G-3G-Indicator	Enumerated	
908	MBMS-Session-Identity	OctetString	
		LITEOGL	
909	RAI	UTF8String	
	RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer	OctetString Unsigned32	

MBMS-Required-DoS	912	MBMS-Session-Identity-Repetition-Number	Unsigned32	
MBMS-Counting-Information				
Note: The AVP codes from 915 to 999 are reserved for TS 29.061				
1000 Bearre-Usage			l l	
1001 Charging-Rule-Install Grouped				
1002 Charging-Rule-Remove Grouped				
1003 Charging-Rule-Befinition Grouped				
1004 Charging-Rule-Base-Name OctelString 1005 Charging-Rule-Base-Name OctelString 1006 Event-Tragger Enumerated 1007 Metering-Method Enumerated 1008 Offline Enumerated 1009 Orline Enumerated 1001 Precedence UnsignedS2 Enumerated 1012 TFI-Filter IPFilterRule IPFi				
1005 Charging-Rule-Name OctetString				
1006 Event-Trigger		Charging-Rule-Name		
1007 Metering-Method Enumerated 1008 Offline Enumerated 1009 Online Enumerated 1010 Precedence Enumerated 1011 Precedence Enumerated 1012 TFF-Filter Enumerated 1012 TFF-Filter Enumerated 1013 TFF-Packet-Filter-Information Enumerated 1014 ToS-Traffic-Class OctetString OctetString Note: The AVP codes from 1015 to 1099 are reserved for TS 29.210 1100 Served-User-Identity Groupe 1101 VASP-ID UTF8Str 1102 VAS-ID UTF8Str 1103 Trigger-Event Enumerated 1104 Sender-Address UTF8Str 1105 Initial-Recipient-Address Groupe 1107 Sequence-Number Unsigne 1108 Recipient-Address UTF8Str 1109 Routeing-Address UTF8Str 1109 Routeing-Address UTF8Str 1111 Delivery-Report Enumer 1111 Delivery-Report Enumer 1111 Delivery-Report Enumer 1111 Delivery-Report Enumer 1111 Sender-Visibility Enumer 1111 Service-Key UTF8Str 1116 Status Groupe UTF8Str 1116 Status Groupe UTF8Str 1116 Status Groupe UTF8Str 1116 Status Groupe UTF8Str 1117 Status-Code UTF8Str UTF8Str 1118 Status-Text UTF8Str UTF8Str 1119 Status-Text UTF8Str UTF8Str 1110 Status-Text UTF8Str UTF8Str 1111 Status-Text UTF8Str UTF8Str 1112 Status-Text UTF8Str UTF8Str 1114 Status-Text UTF8Str UTF8Str 1116 Status-Text UTF8Str UTF8String 1117 Status-Text UTF8String UTF8String 1117 Status-Text UTF8String UTF8String 1117 Status-Text UTF8String UTF8Stri			·	
1008				20 240 [45]
1010				29.210 [15]
1010				
1011				
1012 TFT-Filter				
1013				
Note: The AVP codes from 1015 to 1099 are reserved for TS 29.210				
Note: The AVP codes from 1015 to 1099 are reserved for TS 29.210				
1100 Served-User-Identity				
1101				
1102				
1103				
1104 Sender-Address				
1105				
1106				
1107 Sequence-Number				
1108				
1109				
1110	1108	Recipient-Address	UTF8Str	
1111 Delivery-Report	1109	Routeing-Address	UTF8Str	29.140 [16]
1112 Read-Reply	1110	Originating-Interface	Enumer	
1113 Sender-Visibility	1111	Delivery-Report	Enumer	
1114 Service-Key	1112	Read-Reply	Enumer	
1114 Service-Key	1113		Enumer	
1115 Billing-Information	1114	Service-Key	UTF8Str	
1116	1115		UTF8Str	
1117				
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140				
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name UTF8String 1201 Recipient-Address Grouped 1202 Submission-Time Time 1203 MM-Content-Type Grouped 1204 Type-Number Enumerated 1205 Additional-Type-Information UTF8String 1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 Read-Reply-Report-Requested Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String				
1200 Domain-Name UTF8String 1201 Recipient-Address Grouped Time		e AVP codes from 1119 to 1199 are reserved for TS 29.		
Recipient-Address Grouped				32,299 [5]
1202 Submission-Time 1203 MM-Content-Type 1204 Type-Number 1205 Additional-Type-Information 1206 Content-Size 1207 Additional-Content-Information 1208 Addressee-Type 1209 Priority 1210 Message-ID 1211 Message-Type 1211 Message-Size 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1210 UTF8String 1211 Delivery-Report-Requested 1212 Message-Size 1213 Content-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1210 DRM-Content 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 125 Innerated 1224 Class-Reply-Report-Requested 1226 Enumerated 1227 Reply-Applic-ID 1278String 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID			<u> </u>	02.200 [0]
1203 MM-Content-Type Grouped 1204 Type-Number Enumerated 1205 Additional-Type-Information UTF8String 1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String				
1204 Type-Number 1205 Additional-Type-Information 1206 Content-Size 1207 Additional-Content-Information 1208 Addressee-Type 1209 Priority 1209 Priority 1210 Message-ID 1211 Message-Type 1211 Message-Type 1212 Message-Size 1212 Message-Size 1213 Message-Class 1214 Class-Identifier 1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1210 UTF8String 1220 Content-Class 1220 Enumerated 1211 DRM-Content 1212 Read-Reply-Report-Requested 1222 Read-Reply-Report-Requested 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID UTF8String 1220 UTF8String				
1205 Additional-Type-Information UTF8String 1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String				
1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String				
1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String				
1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String				
1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String				
1210Message-IDUTF8String1211Message-TypeEnumerated1212Message-SizeUnsigned321213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1211Message-TypeEnumerated1212Message-SizeUnsigned321213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1212Message-SizeUnsigned321213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String				
1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String				
1223 Reply-Applic-ID UTF8String				
1224 File-Repair-Supported Enumerated		Reply-Applic-ID		
	1224	File-Repair-Supported	Enumerated	

1225	MBMS-User-Service-Type	Enumerated	
1226	Unit-Quota-Threshold	Unsigned32	
1227	PDP-Address	Address	
1228	SGSN-Address	Address	
1229	PoC-Session-Id	UTF8String	
1230	Deferred-Location-Even-Type	UTF8String	
1231	LCS-Client-Name	UTF8String	
1232	LCS-Client-Id	Grouped	
1233	LCS-Client-Dialed-By-MS	UTF8String	
1234	LCS-Client-External-ID	UTF8String	
1235	LCS-Client-Name	Grouped	
1236	LCS-Data-Coding-Scheme	UTF8String	
1237	LCS-Format-Indicator	Enumerated	
1238	LCS-Name-String	UTF8String	
1239	LCS-Requestor-Id	Grouped	
1240	LCS-Requestor-Id-String	UTF8String	
1241	LCS-Client-Type	UTF8String	
1242	Location-Estimate	UTF8String	
1243	Location-Estimate-Type	UTF8String	
1244	Location-Type	Grouped	
1245	Positioning-Data	UTF8String	
1246	WLAN-Session-Id	UTF8String	
1247	PDP-Context-Type	Enumerated	
1248	MMBox-Storage-Requested	Enumerated	
1249	Reserved		
1250	Called-Asserted-Identity	UTF8String	
1251	Requested-Party-Address	UTF8String	
1252	Reserved		
1253	Reserved		
1254	Reserved		
1255	Talk-Burst-Exchange	Grouped	
1256	Reserved		
1257	Reserved		
1258	Reserved		
1259	Reserved		
1260	Reserved		
1261	PoC-Change-Conditions	Enumerated	
1262	PoC-Change-Time	Time	
1263	Reserved		
1264	Tridder	Grouped	
Note: Th	e AVP codes from 1265 to 1299 are reserved for	TS 32.299	

8 Experimental result codes

The Diameter answer messages must carry either Result-Code AVP or Experimental-Result AVP. The values of Result-Code AVP are controlled by IANA. The Experimental-Result AVP is a grouped AVP containing the Vendor-Id AVP and Experimental-Result-Code AVP, thus the experimental result codes are controlled in a vendor-specific manner.

8.1 3GPP specific result codes

The 3GPP specific result codes are always transferred in the Experimental-Result AVP, which has the Vendor-Id with value of 3GPP's vendor identifier. The 3GPP specific result codes shall follow the same classification as defined for the values of Result-Code AVP in IETF RFC 3588 [9]. That means, the result codes are grouped to following ranges:

- 1xxx (Informational)
- 2xxx (Success)
- 4xxx (Transient Failures)
- 5xxx (Permanent Failures)

8.1.1 Informational

The Informational result codes shall use the values from 1001 to 1999 in the Experimental-Result-Code AVP.

Editor's note: No informational result codes have been yet defined in 3GPP.

8.1.2 Success

The Success result codes shall use the values from 2001 to 2999 in the Experimental-Result-Code AVP. The reserved 3GPP specific Success result codes are presented in the following table.

Table 8.1.2: 3GPP specific Success result codes

Experimental	Result text	Specified in the TS
Result Code		
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION	
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	
2005	Deprecated value	
Note: The Expe	rimental Result Codes from 2006 to 2020 are reserved for the	TS 29.229.
		29.109 [7]
Note: The Expe	rimental Result Codes from 2401 to 2420 are reserved for the	TS 29.109.

8.1.3 Transient Failures

The Transient Failure result codes shall use the values from 4001 to 4999 in the Experimental-Result-Code AVP. The reserved 3GPP specific Transient Failure result codes are presented in the following table.

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	20, 220, [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	29.329 [4]
Note: The Exper	rimental Result Codes from 4102 to 4120 are reserved for the	ΓS 29.329.
		29.061 [13]
Note: The Exper	rimental Result Codes from 4121 to 4140 are reserved for the	ΓS 29.061.
		32.299 [5]
Note: The Exper	rimental Result Codes from 41xx to 41yy are reserved for the T	S 32.299.
•		

8.1.4 Permanent Failures

The Permanent Failure result codes shall use the values from 5001 to 5999 in the Experimental-Result-Code AVP. The reserved 3GPP specific Permanent Failure result codes are presented in the following table.

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS				
5001	DIAMETER_ERROR_USER_UNKNOWN					
5002	DIAMETER ERROR IDENTITIES DONT MATCH					
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED					
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED					
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED					
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	29.229 [2]				
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]				
5008	DIAMETER_ERROR_TOO_MUCH_DATA					
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA					
5010	unassigned					
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED					
Note: The Exper	rimental Result Codes from 5012 to 5020 are reserved for the TS					
N (TI E	: I.D I.O. I	32.299 [5]				
	rimental Result Codes from 5021 to 5040 are reserved for the TS	S 32.299.				
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION					
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER					
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	29.234 [6]				
	RIPTION					
	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION					
	rimental Result Codes from 5041 to 5060 are reserved for the TS	S 29.234.				
	INVALID_SERVICE_INFORMATION	29.209 [8],				
	FILTER_RESTRICTIONS	29.211 [17]				
Note: The Exper	rimental Result Codes from 5063 to 5080 are reserved for TS 29	0.209 and TS 29.211.				
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED					
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED					
5102	DIAMETER ERROR USER DATA CANNOT BE READ					
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	29.329 [4]				
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED					
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED DIAMETER_ERROR_TRANSPARENT_DATA					
5105	OUT_OF_SYNC					
Note: The Even	rimental Result Codes from 5106 to 5119 are reserved for the T	2 20 220				
		3 29.329.				
5120	DIAMETER_ERROR_START_INDICATION					
5121	DIAMETER_ERROR_STOP_INDICATION	00 004 [40]				
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E	29.061 [13]				
5123	DIAMETER_ERROR_SERVICE_AREA					
Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061						
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	20 240 [45]				
5141	DIAMETER_ERROR_TRIGGER_EVENT	29.210 [15]				
Note: The Experimental Result Codes from 5142 to 5159 are reserved for the TS 29.210.						
		29.109 [7]				
Note: The Experimental Result Codes from 5400 to 5419 are reserved for the TS 29.109.						

Annex A (informative): Assignment of the Diameter codes and identifiers in 3GPP

This annex defines the recommended assignment procedure of Diameter codes and identifiers within the 3GPP.

A.1 Application identifiers

If a working group detects it will require a new application identifier, it should contact the 3GPP TSG-CN WG 4 via a Liaison Statement. The LS shall contain the name of the Diameter application and a reference to the corresponding 3GPP TS. The 3GPP TSG-CN WG 4 will then request the application identifier from IANA. When the application identifier is received, the corresponding working group will be informed by 3GPP TSG-CN WG 4 and the table 4.1 in this specification will be updated.

According to RFC 3588 the creation of a new application should be avoided if at all possible and therefore it is recommended to use the existing application identifiers whenever possible.

A.2 Command codes

If a working group detects there is a need for a new command code(s) from the 3GPP's range, it should contact the 3GPP TSG-CN WG 4 via an LS. The LS shall contain the reference to the 3GPP TS, which specifies the command(s). The 3GPP TSG-CN WG 4 will inform the assigned command code(s) to the corresponding working group and the table 5.1 in this specification will be updated.

It should be noted that the standard command codes allocated for 3GPP are scarce resource and getting new ones would require IETF specification work to be done. Therefore it is recommended to use the existing command codes whenever possible.

A.3 AVP codes

If a working group detects a Diameter application needs new 3GPP specific AVP codes, it should contact the 3GPP TSG-CN WG 4 via an LS. The LS shall contain the name of the Diameter application and a reference to the corresponding 3GPP TS. The 3GPP TSG-CN WG 4 will allocate a range of 100 AVP codes for the application. The range will be informed to the corresponding working group and the table 7.1 will be updated in this specification to show the reserved range. The working group can use the allocated range as a working assumption when defining the actual AVPs.

When the corresponding working group has specified the AVPs, and the specification has been approved and is under CR control, it should inform the AVPs to the 3GPP TSG-CN WG 4 via an LS. The LS should list the used AVP codes in the form of the table 7.1.

If there will be defined new AVPs for a Diameter application through the CR procedure, the assigned AVP range can be used, but the 3GPP TSG-CN WG 4 should be also informed about the new AVP codes via an LS.

Re-using of the existing AVPs is recommended, but special attention should be paid on the use of enumerated AVPs. Defining new values for an enumerated AVP should be agreed case by case with the working group responsible of the particular enumerated AVP. 3GPP TSG-CN WG 4 shall be informed via an LS about the new values assigned to the enumerated AVP.

A.4 Result codes

If a working group detects a Diameter application needs new 3GPP specific result codes, it should contact the 3GPP TSG-CN WG 4 via an LS. The LS shall contain the name of the Diameter application and a reference to the corresponding 3GPP TS. The 3GPP TSG-CN WG 4 will allocate a range of 20 result codes from each required result

code group for the application. The ranges will be informed to the corresponding working group and the tables in the chapter 8 of this specification will be updated to show the reserved ranges. The working group can use the allocated ranges as a working assumption when defining the actual result codes.

When the corresponding working group has specified the result codes, and the specification has been approved and is under CR control, it should convey the codes to the 3GPP TSG-CN WG 4 via an LS. The LS should list the used result codes in the form of the tables in chapter 8.

If there will be defined new result codes for a Diameter application through the CR procedure, the assigned result code ranges can be used, but the 3GPP TSG-CN WG 4 should be also informed about the new result codes via an LS.

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

	Change history								
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New		
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0		
2004-09	CN#25	NP-040401	001		Correction of Charging application reference	6.0.0	6.1.0		
2004-09	CN#25	NP-040401	002		Correction of the Application-Id code	6.0.0	6.1.0		
2004-09	CN#25	NP-040401	003		Removal of User Data Request Type AVP	6.0.0	6.1.0		
2004-09	CN#25	NP-040412	004	1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0		
2004-12	CN#26	NP-040579	006		Inclusion of missing Cx AVPs	6.1.0	6.2.0		
2004-12	CN#26	NP-040580	007	1	Reservation of command code 310	6.1.0	6.2.0		
2004-12	CN#26	NP-040579	009	1	Addition of Gmb interface	6.1.0	6.2.0		
2004-12	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0		
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.1.0	6.2.0		
2004-12	CN#26	NP-040579	012		Addition of Gx interface	6.1.0	6.2.0		
2005-03	CN#27	NP-050047	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0		
		NP-050039	043		Allocations for Gx interface				
		NP-050039	045		Allocations for Gmb interface				
	ĺ	NP-050039	046		Allocations for MMS, MM10 Interface	Ī			
2005-06	CT#28	CP-050088	0050		Gx interface allocation correction	6.3.0	6.4.0		
		CP-050196	0051	1	Addition of Maximum-Number-Accesses AVP				
2005-09	CT#29	CP-050440	0052	1	Private identities on the Cx	6.4.0	6.5.0		
		CP-050310	0053		Addition of Pr reference point to TS 29.230				
		CP-050310	0054		Error code cleanup				
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result Codes]			
2005-12	CT#30	CP-050610	0061	1	New AVPs for WLAN	6.5.0	6.6.0		
		CP-050612	0062		Additional Gmb AVP Allocation				
		CP-050612	0064		Reservation of AVP codes for 32.299				
2006-03	CT#31	CP-060073	0068		Adding data type of some of WLAN-related AVPs	6.6.0	6.7.0		
2006-06	CT#32	CP-060302	0074		S-CSCF reselection removal	6.7.0	6.8.0		
2006-12	CT#34	CP-060555	8800		AVP code allocations for Rf and Ro interfaces	6.8.0	6.9.0		
		CP-060555			Allocation of new AVP codes for Gmb				
2007-06	CT#36	CP-070312	0097		Experimental-Result-Codes for Gmb interface	6.9.0	6.10.0		
		CP-070312	0099		Correction of Diameter AVP code allocation				

History

Document history					
V6.2.0	December 2004	Publication			
V6.3.0	March 2005	Publication			
V6.4.0	June 2005	Publication			
V6.5.0	September 2005	Publication			
V6.6.0	December 2005	Publication			
V6.7.0	March 2006	Publication			
V6.8.0	June 2006	Publication			
V6.9.0	December 2006	Publication			
V6.10.0	June 2007	Publication			